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(74) Agent: **CHOCHOROWSKA-WINIARSKA, Krystyna;**  
ABB Corporate Research, ul. Starowisla 13 A, PL-31-038  
Krakow (PL).

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(71) Applicant (*for all designated States except US*): **ABB SP.**  
**ZO. O.** [PL/PL]; ul. Bitwy Warszawskiej 1920r, nr 18,  
PL-02-366 Warszawa (PL).

(72) Inventors; and

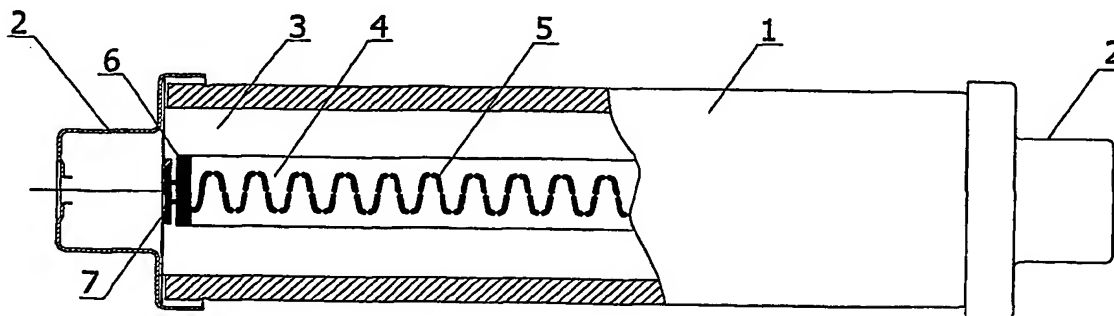
(75) Inventors/Applicants (*for US only*): **WILNIEWCZYC,**  
**Mariusz** [PL/PL]; ul. Szkoły Orłat 1/38, PL-03-984  
Warszawa (PL). **KALTENBORN, Uwe** [CH/CH]; Pil-  
gerstrasse 65, CH-5405 Dättwil (CH). **HOFFMANN,**  
**Guldo** [CH/CH]; Lindenstrasse 9, CH-5430 Wettingen  
(CH). **KALTENEGGER, Kurt** [CH/CH]; Chratzstrasse  
12, CH-5426 Lengnau (CH).

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(54) Title: A HIGH-VOLTAGE THICK-FILM HIGH RUPTURING CAPACITY SUBSTRATE FUSE



(57) Abstract: The subject of the invention is a high-voltage thick-film high rupturing capacity substrate fuse. The characteristic feature of the inventive fuse is that inside a tubular insulating casing 1/, which is closed at both ends with metal endocarps 2/ and filled with arc quenching medium 3/, there is located at least one insulating substrate 4/, along which there is placed at least one fuse element 5/ in the form of a thin conducting film and which has terminal areas 6/ at its ends, which areas are electrically connected with the end-caps by specially shaped contacts 7/ located inside the end-caps. The fuse element comprises a basic part formed by multiple identical V-shaped modules and two end modules forming electric connections between the basic part and the terminal areas. In each module, the arms of the V shape, of a specific width, end with arches directed outwards 8/, which arches are connected with the arches of the arms of the neighboring modules by means of line segments, thus forming a line, which bends many times at a constant angle and has truncated vertices in each module, in which line at least one module contains at least one edge constriction 9/, enabling opening of the current path when the fuse is overloaded.

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